

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004607.D
 Acq On : 16 Sep 2018 02:12
 Operator : JC/MD
 Sample : J4913-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-EB01-20180913

Quant Time: Sep 17 08:45:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	258124	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	354970	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339381	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	217211	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	169639	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
35) Dibromofluoromethane	5.50	113	155728	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
50) Toluene-d8	8.72	98	497794	45.70	ug/l	0.00
Spiked Amount			Recovery	=	91.40%	
62) 4-Bromofluorobenzene	11.14	95	177031	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

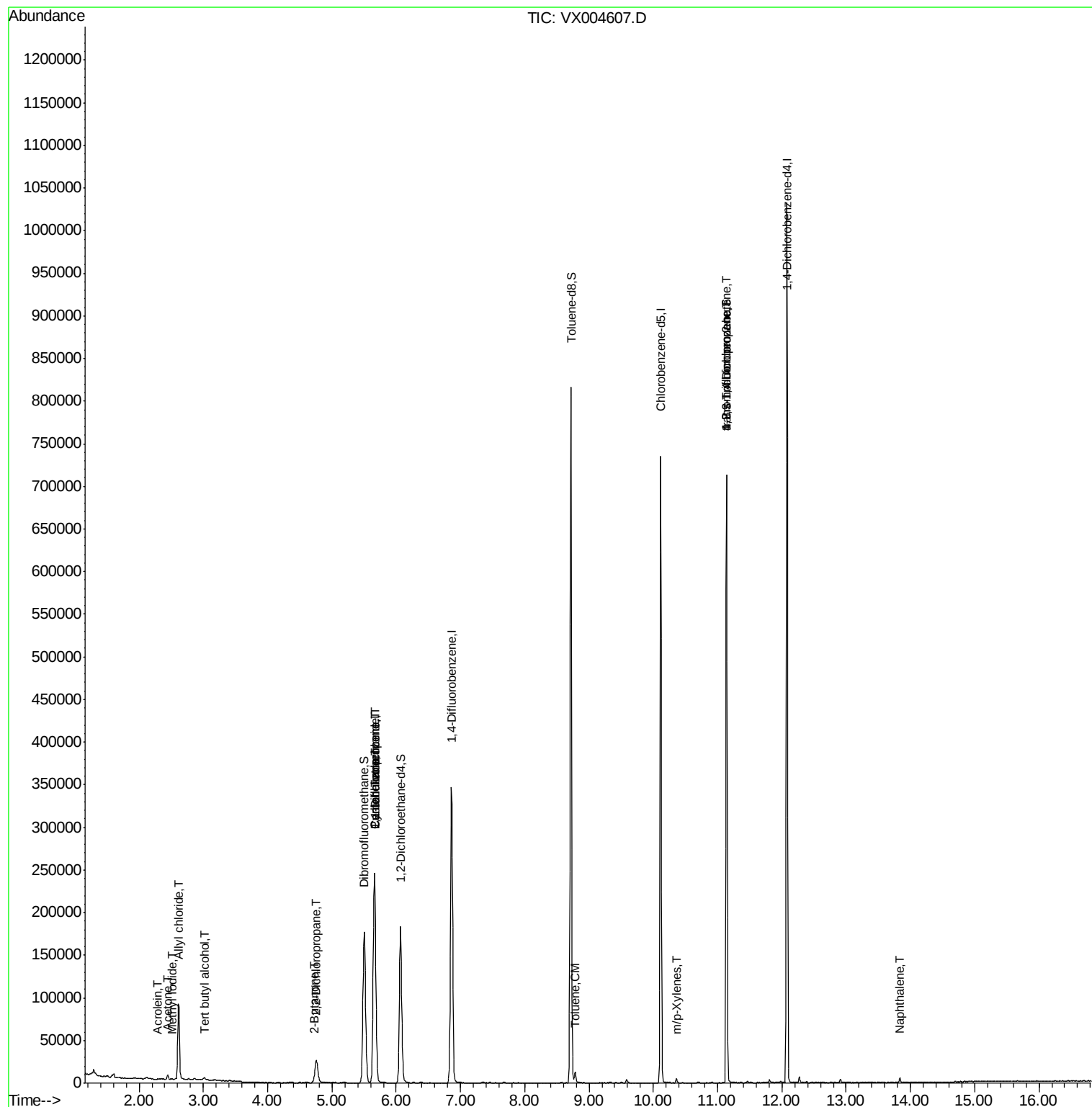
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	775	Below Cal	#	63
10) Methyl Iodide	2.51	142	403	4.36	ug/l #	86
11) Tert butyl alcohol	3.02	59	1579	1.99	ug/l #	72
13) Acrolein	2.29	56	144	0.46	ug/l #	52
14) Allyl chloride	2.61	41	8698	1.57	ug/l #	71
16) Acetone	2.45	43	5042	3.10	ug/l	93
25) 2-Butanone	4.71	43	736	0.28	ug/l #	47
26) 2,2-Dichloropropane	4.75	77	2424	0.63	ug/l #	52
31) Cyclohexane	5.66	56	4459	0.93	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17506	4.06	ug/l #	49
38) Carbon Tetrachloride	5.66	117	22694	5.39	ug/l #	15
52) Toluene	8.79	92	4270	0.57	ug/l	100
68) m/p-Xylenes	10.36	106	1202	0.23	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	83304	19.06	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	83304	60.76	ug/l #	10
95) Naphthalene	13.83	128	3831	0.26	ug/l	97

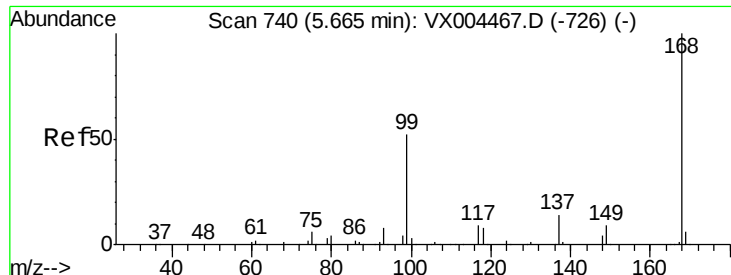
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

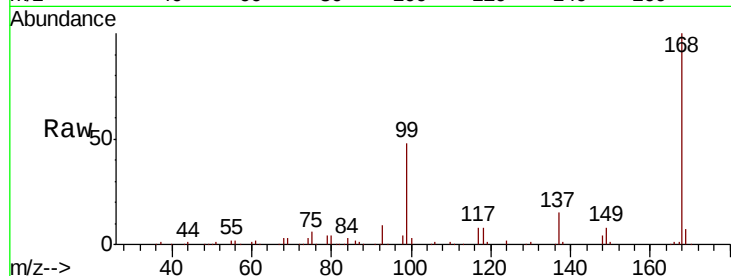
BP-TT-EB01-20180913

Tot Ion:168 Resp: 258124

Ion Ratio Lower Upper

168 100

99 47.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

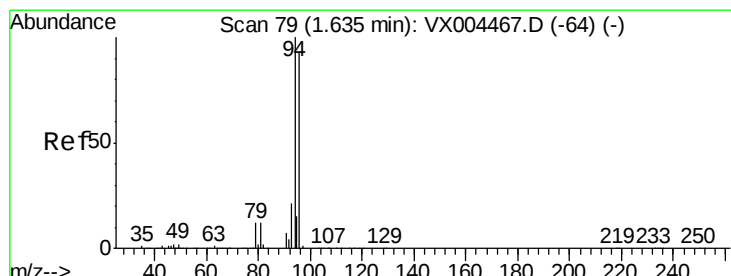
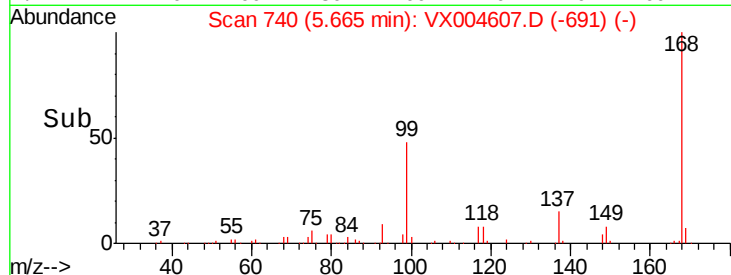
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004607.D

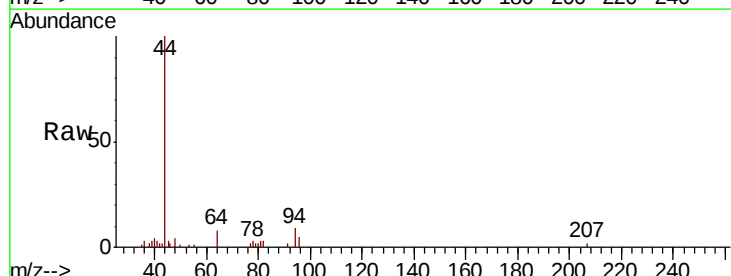
Acq: 16 Sep 2018 02:12

Tgt Ion: 94 Resp: 775

Ion Ratio Lower Upper

94 100

96 57.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

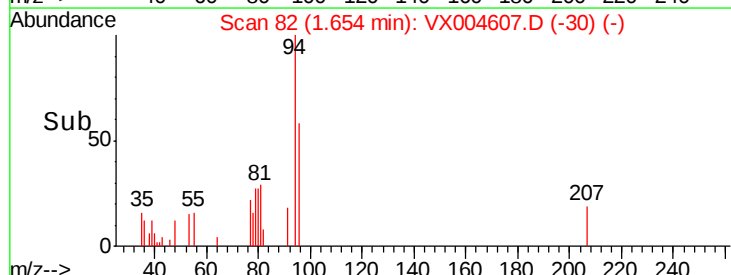
300

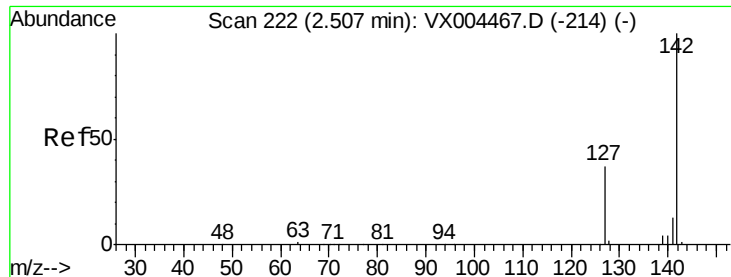
200

100

0

Time--> 1.60 1.65 1.70

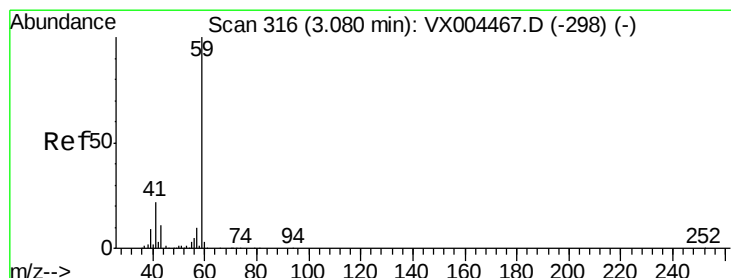
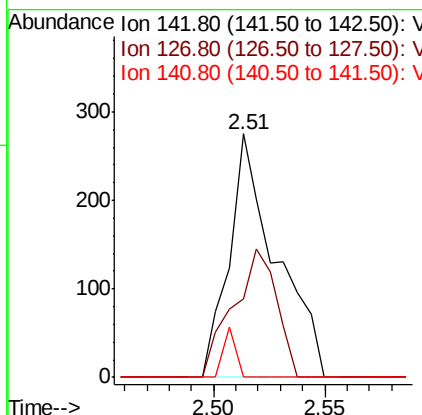
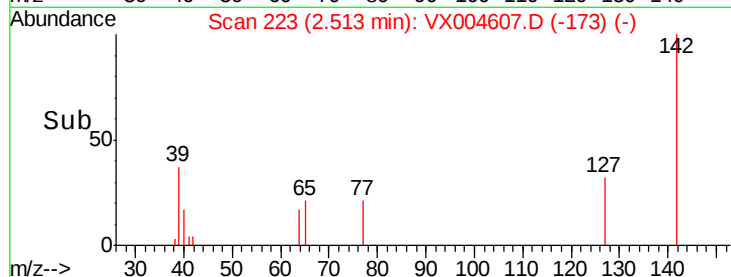
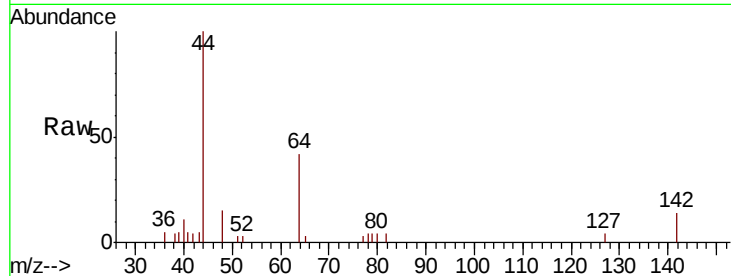




#10
Methvl Iodide
Concen: 4.36 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

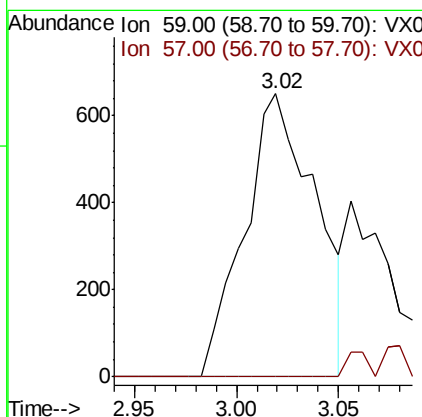
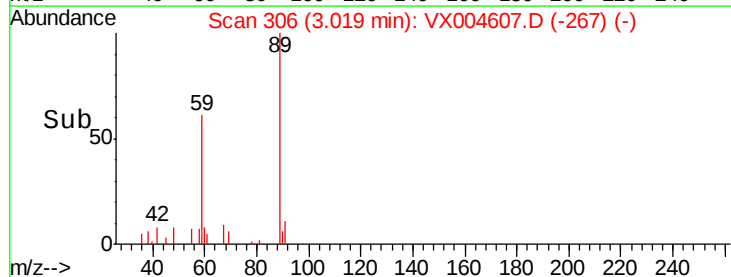
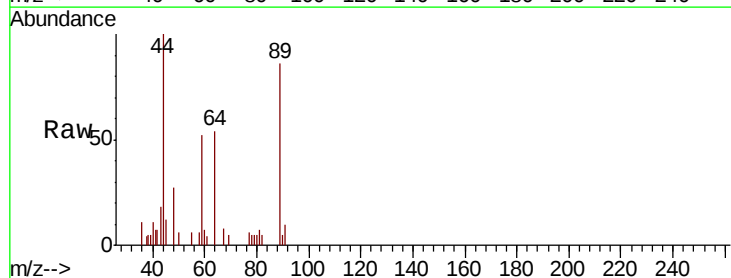
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-EB01-20180913

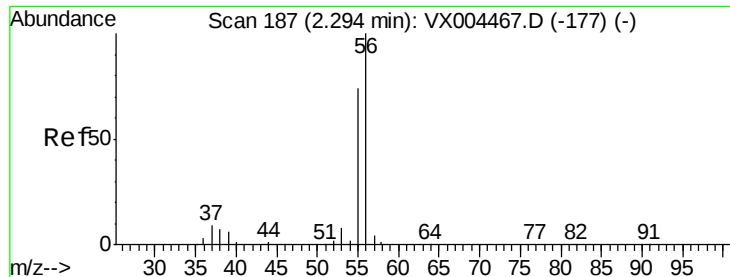
Tot Ion:142 Resp: 403
Ion Ratio Lower Upper
142 100
127 49.1 33.8 50.6
141 5.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.99 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

Tgt Ion: 59 Resp: 1579
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.46 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

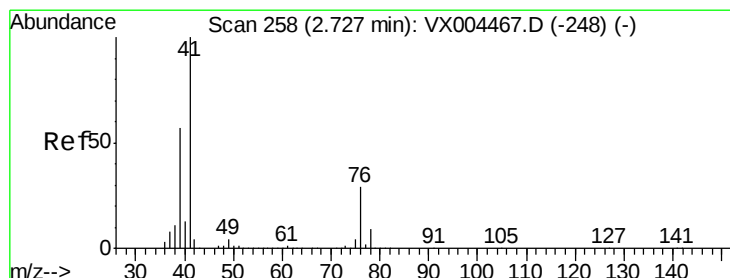
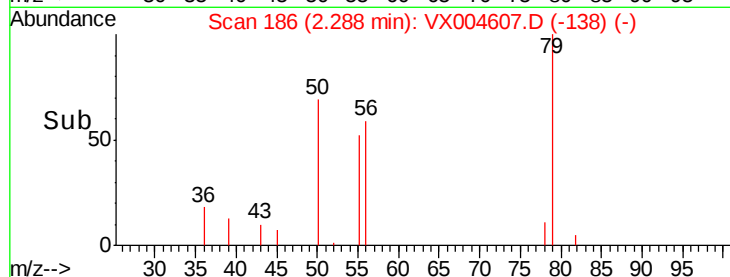
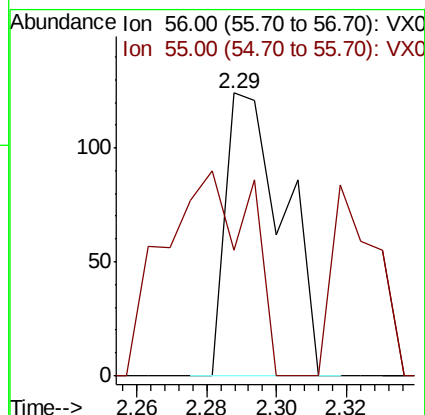
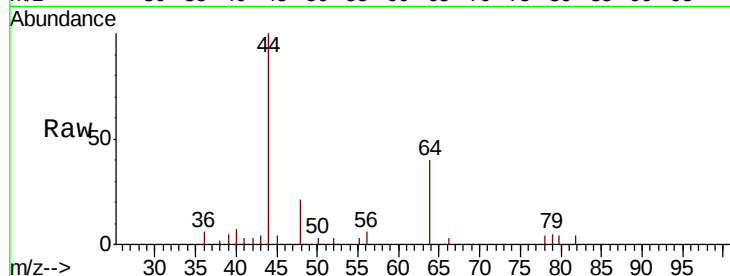
BP-TT-EB01-20180913

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 106.9 54.7 82.1#



#14

Allyl chloride

Concen: 1.57 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.12 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

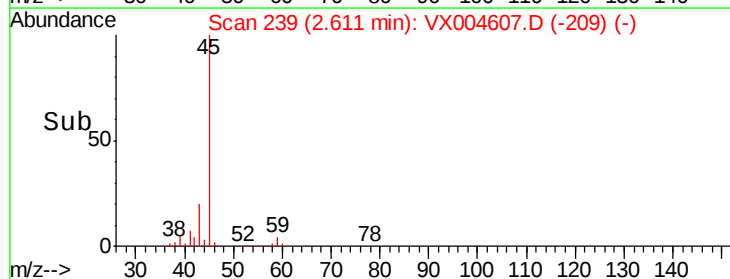
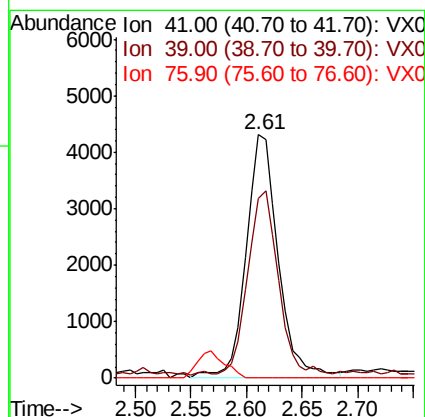
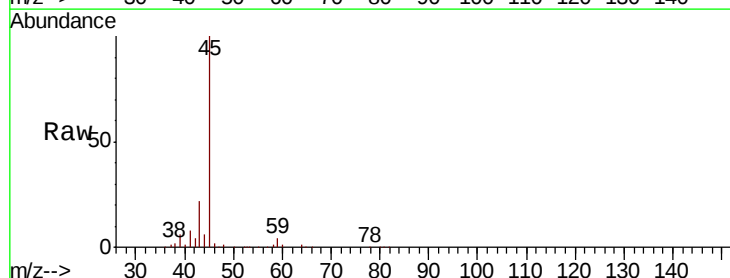
Tgt Ion: 41 Resp: 8698

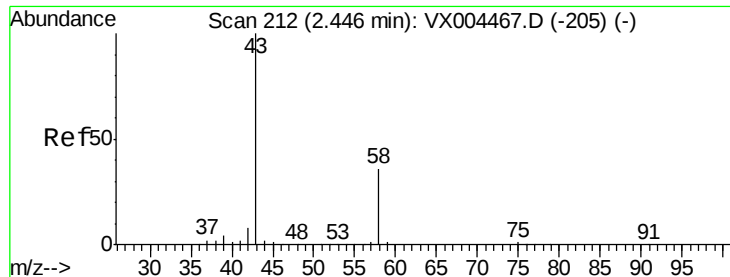
Ion Ratio Lower Upper

41 100

39 71.1 48.9 73.3

76 0.0 26.7 40.1#





#16

Acetone

Concen: 3.10 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

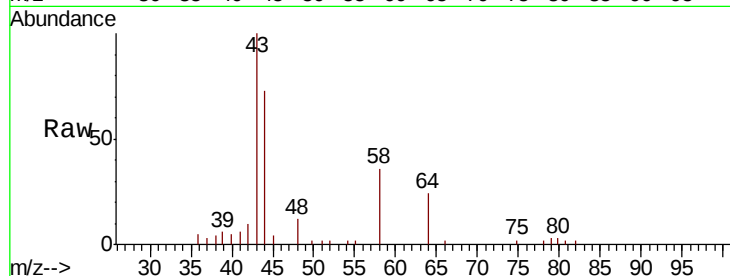
BP-TT-EB01-20180913

Tot Ion: 43 Resp: 5042

Ion Ratio Lower Upper

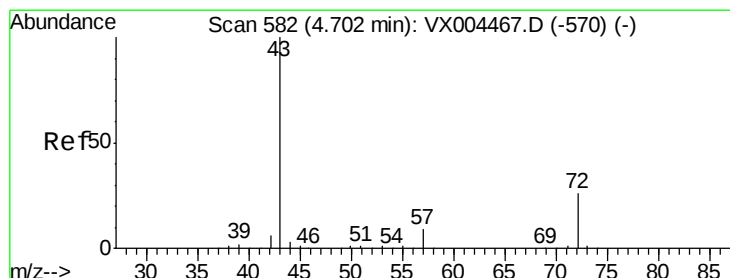
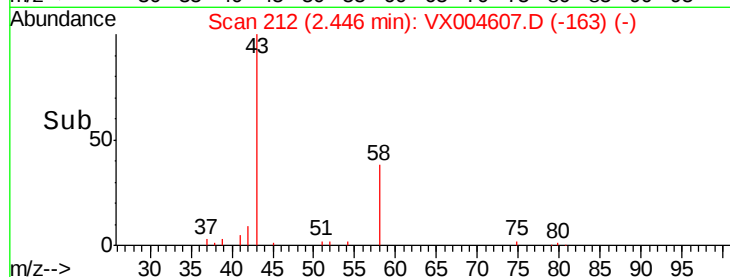
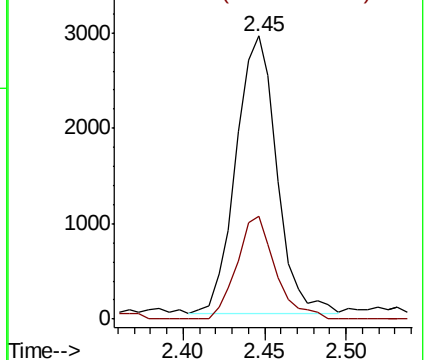
43 100

58 37.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004607.D

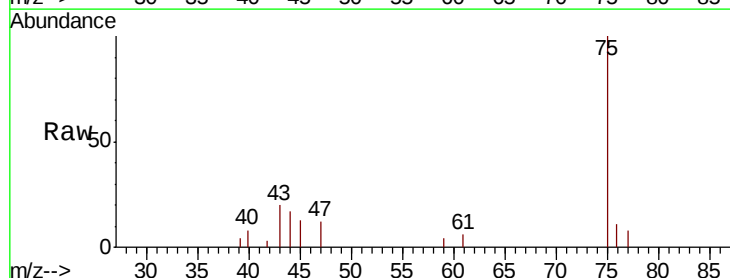
Acq: 16 Sep 2018 02:12

Tgt Ion: 43 Resp: 736

Ion Ratio Lower Upper

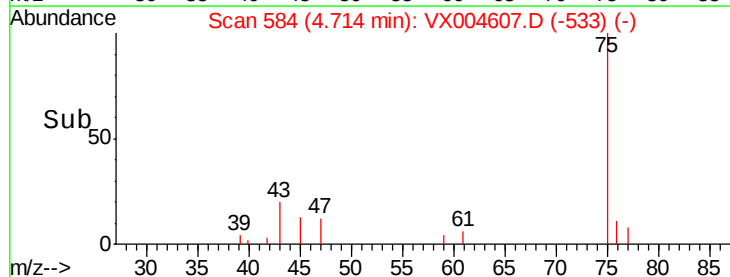
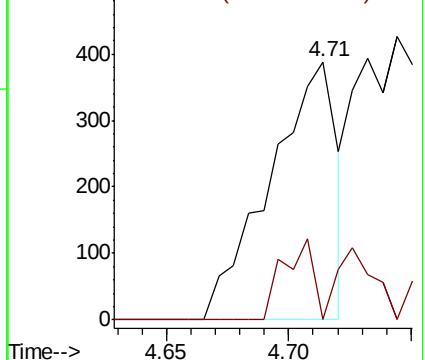
43 100

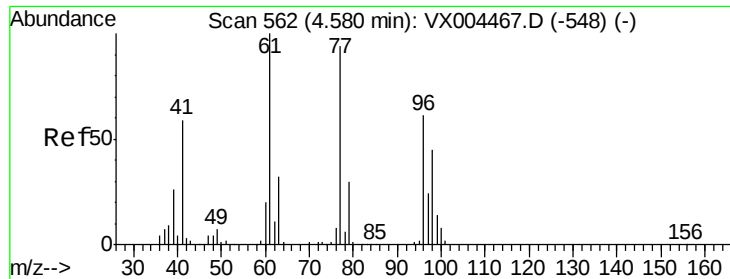
72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.63 ug/l

RT: 4.75 min Scan# 590

Delta R.T. 0.17 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

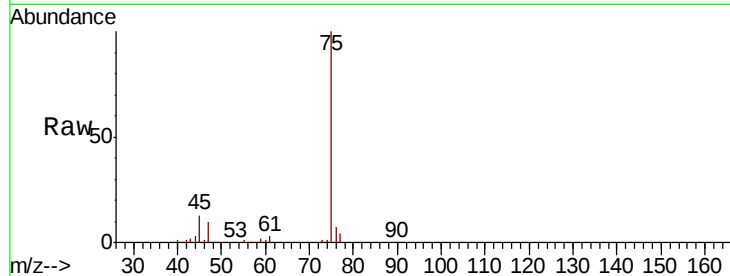
BP-TT-EB01-20180913

Tot Ion: 77 Resp: 2424

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.75

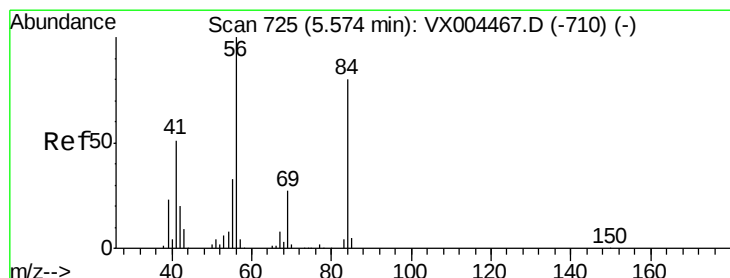
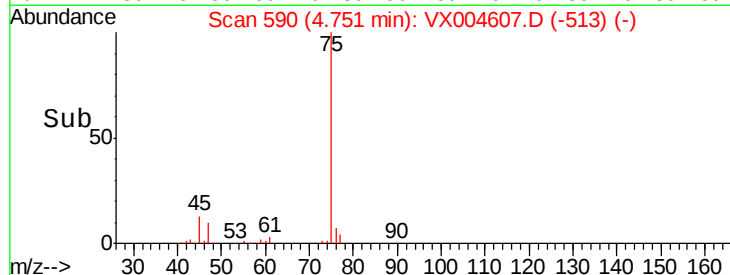
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.93 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

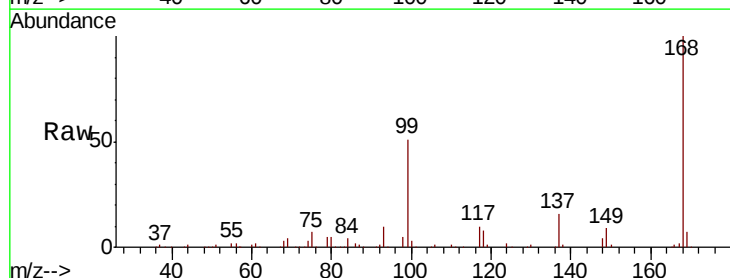
Tgt Ion: 56 Resp: 4459

Ion Ratio Lower Upper

56 100

69 216.7 25.4 38.2#

84 213.3 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

4000

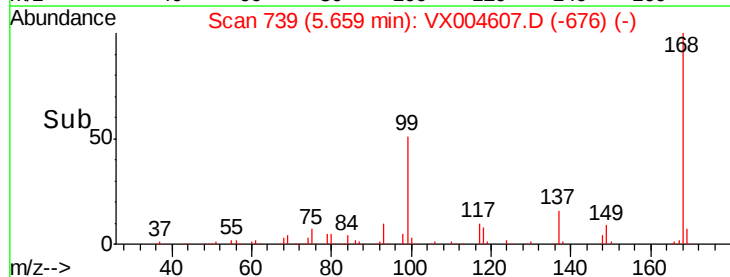
3000

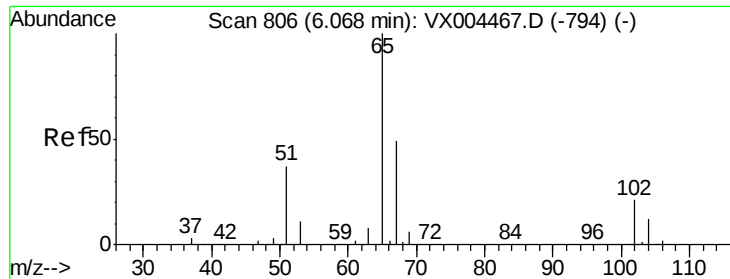
2000

1000

0

Time-->

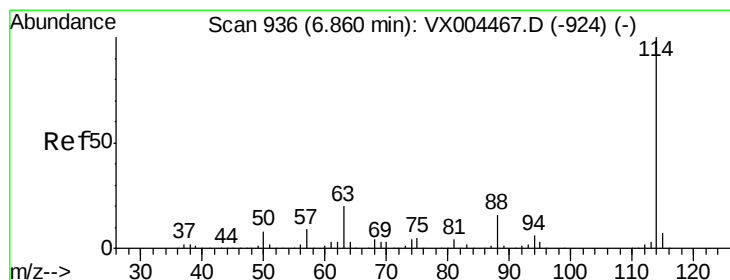
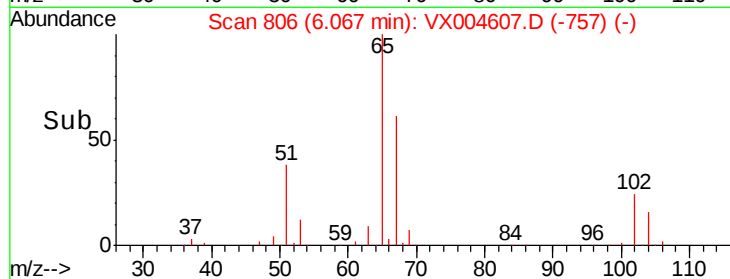
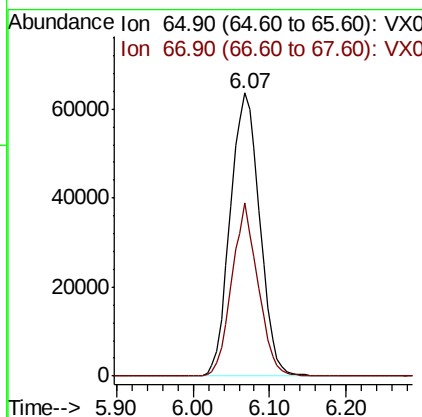
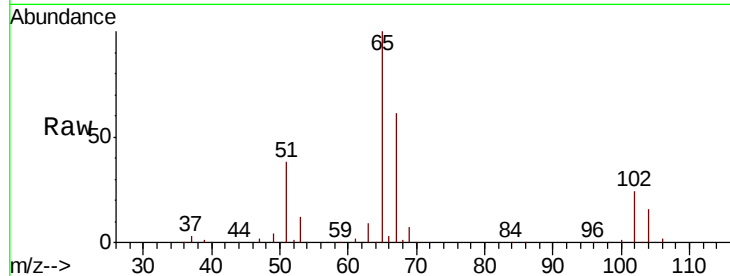




#33
 1,2-Dichloroethane-d4
 Concen: 50.97 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004607.D
 Acq: 16 Sep 2018 02:12

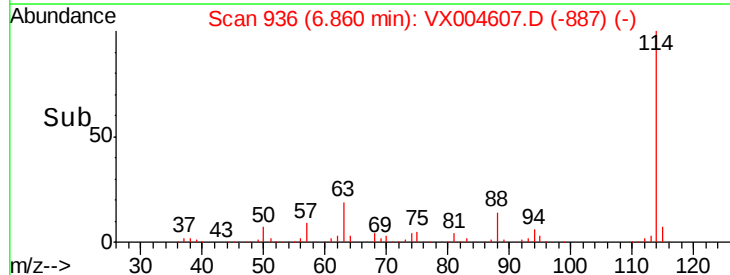
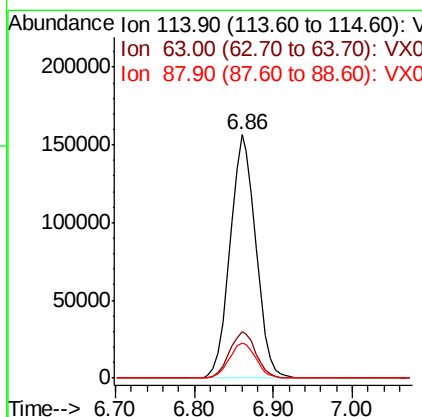
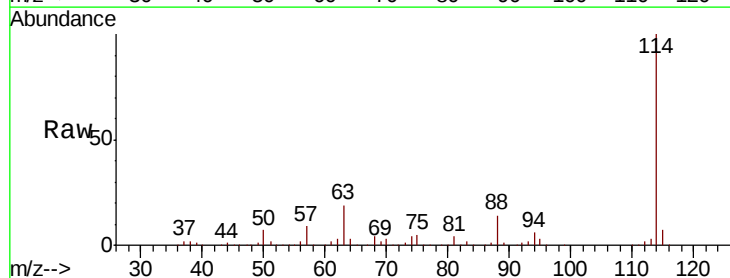
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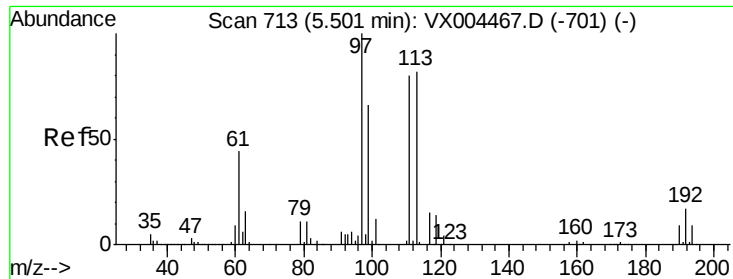
Tot Ion: 65 Resp: 169639
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004607.D
 Acq: 16 Sep 2018 02:12

Tgt Ion: 114 Resp: 354970
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 14.2 0.0 30.4

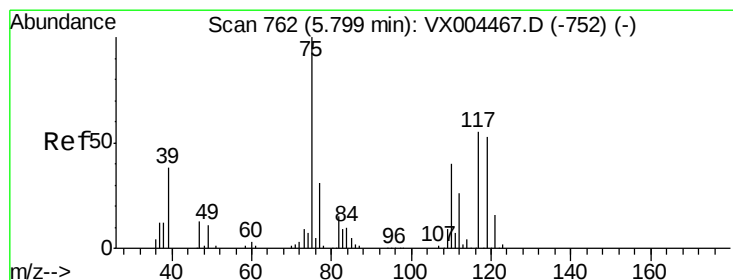
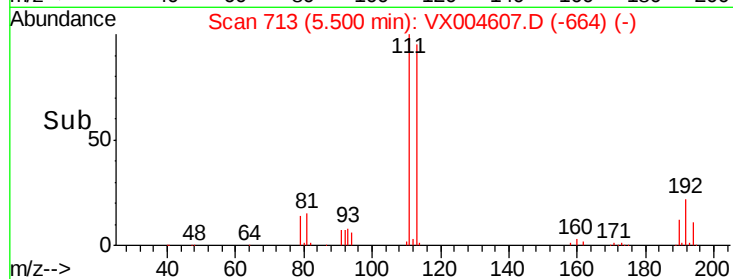
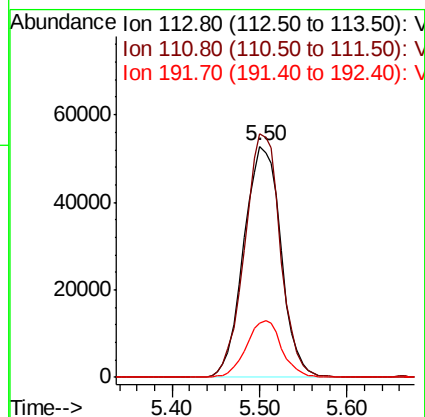
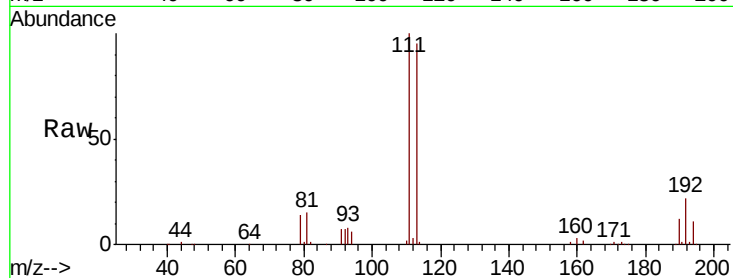




#35
 Dibromofluoromethane
 Concen: 47.94 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004607.D
 Acq: 16 Sep 2018 02:12

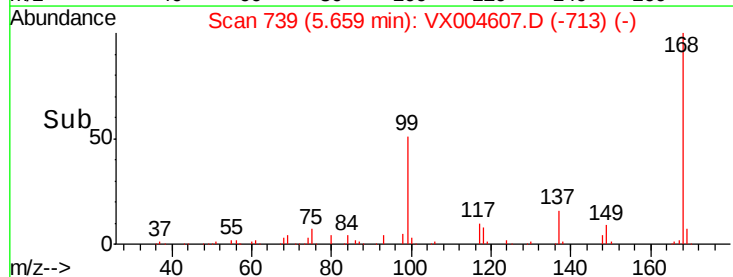
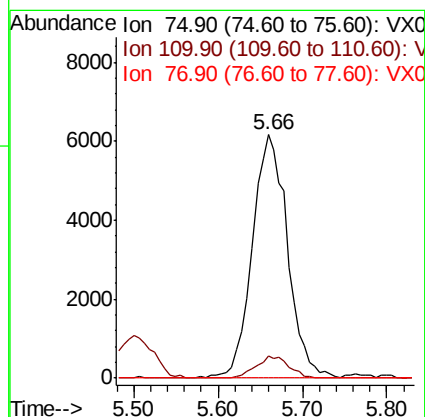
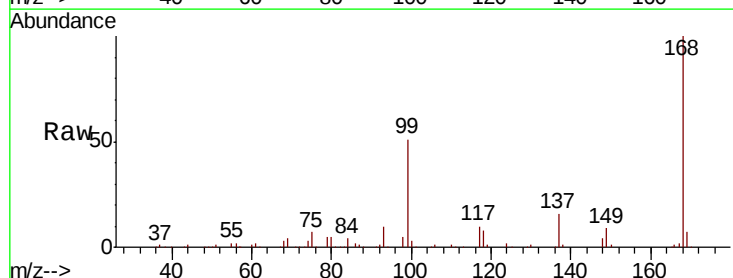
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 BP-TT-EB01-20180913

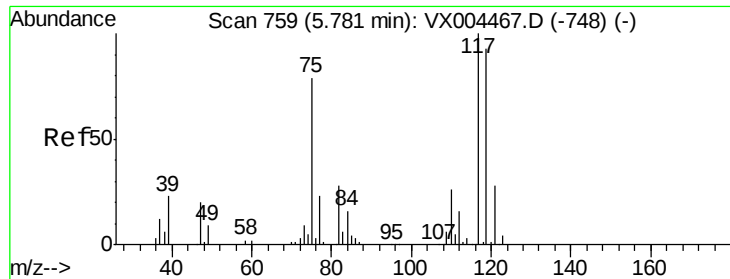
Tot Ion:113 Resp: 155728
 Ion Ratio Lower Upper
 113 100
 111 101.3 82.4 123.6
 192 23.4 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.06 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004607.D
 Acq: 16 Sep 2018 02:12

Tgt Ion: 75 Resp: 17506
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.0 54.0#
 77 0.0 24.6 36.8#

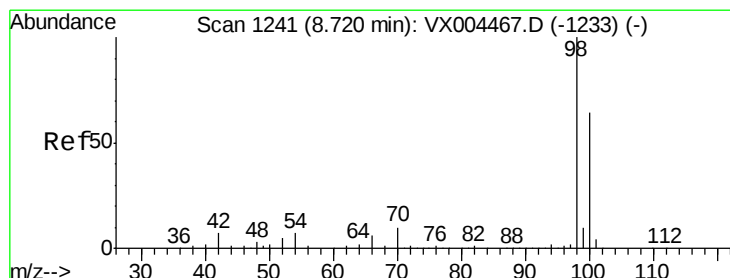
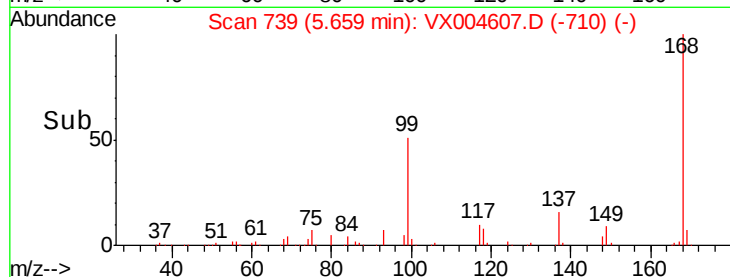
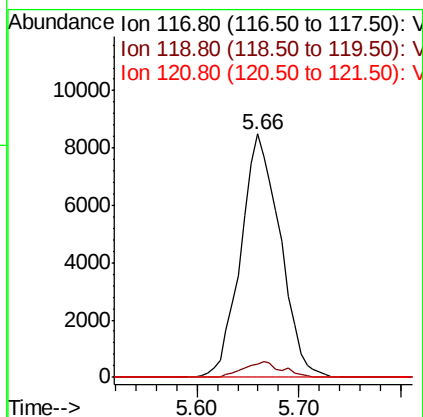
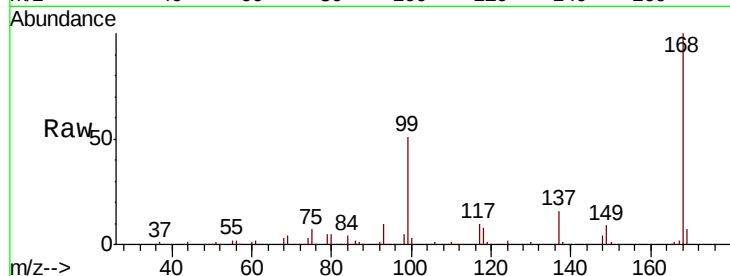




#38
Carbon Tetrachloride
Concen: 5.39 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

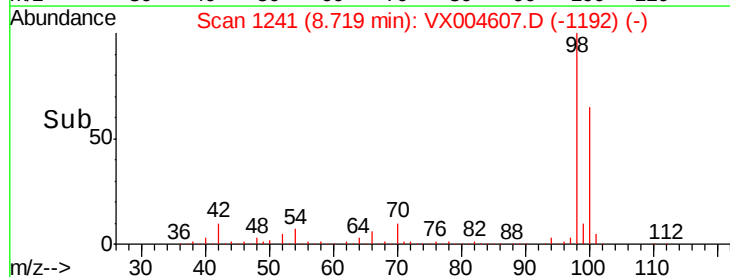
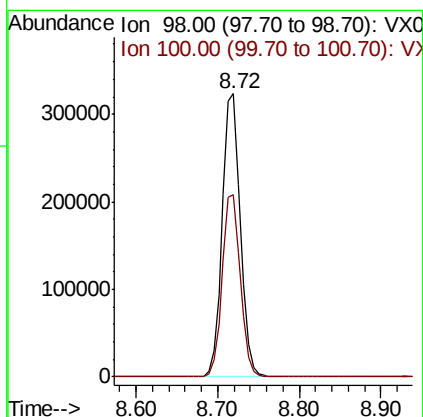
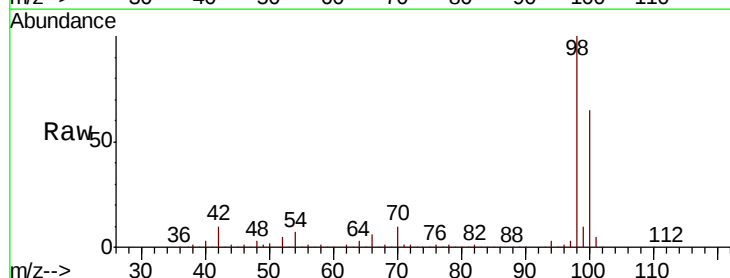
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-EB01-20180913

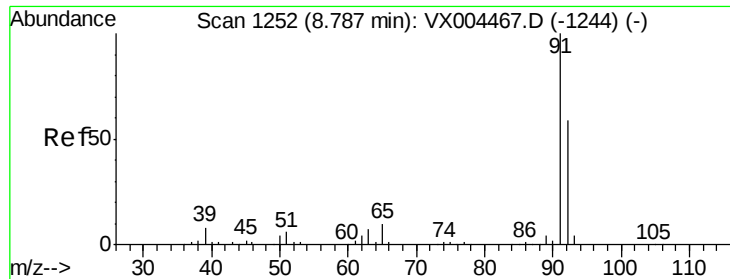
Tot Ion:117 Resp: 22694
Ion Ratio Lower Upper
117 100
119 5.6 78.8 118.2#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 45.70 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

Tgt Ion: 98 Resp: 497794
Ion Ratio Lower Upper
98 100
100 64.5 52.9 79.3





#52

Toluene

Concen: 0.57 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

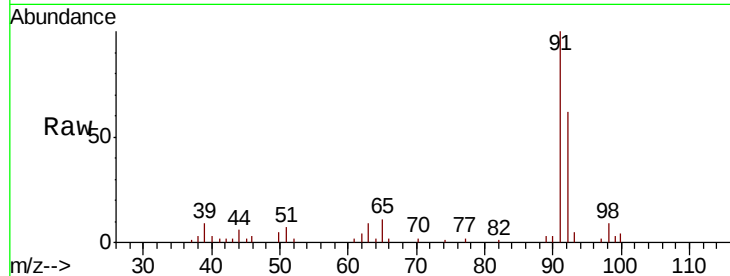
BP-TT-EB01-20180913

Tot Ion: 92 Resp: 4270

Ion Ratio Lower Upper

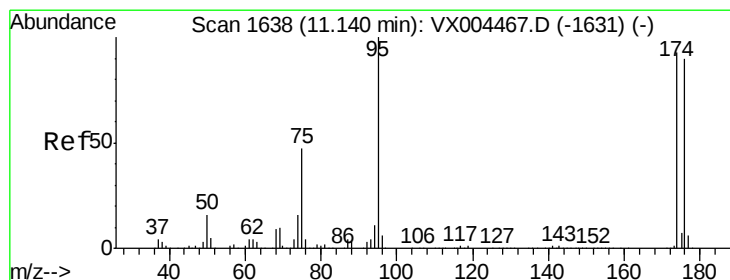
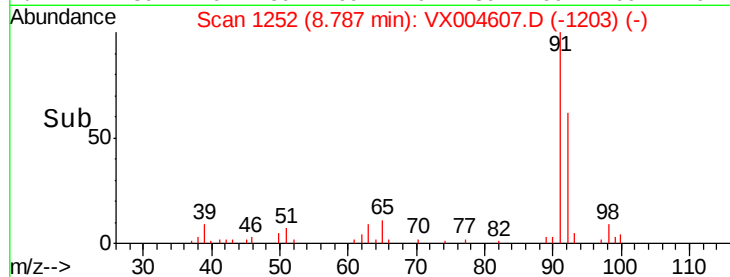
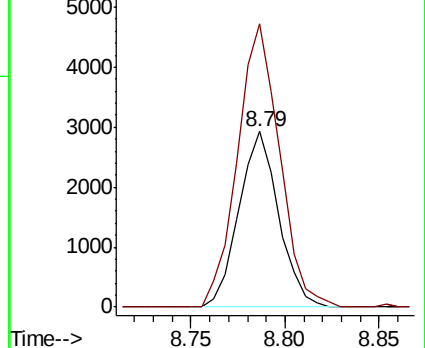
92 100

91 170.7 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.53 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

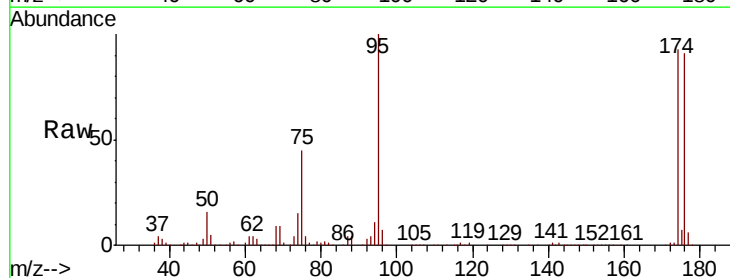
Tgt Ion: 95 Resp: 177031

Ion Ratio Lower Upper

95 100

174 94.3 0.0 185.2

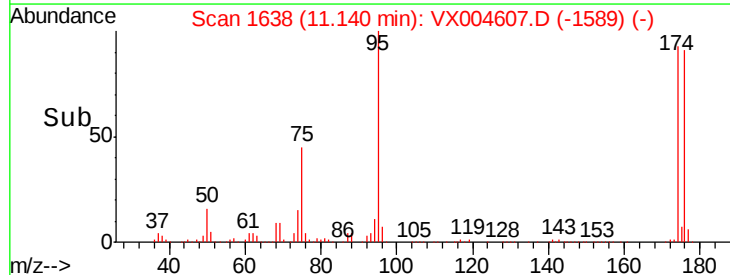
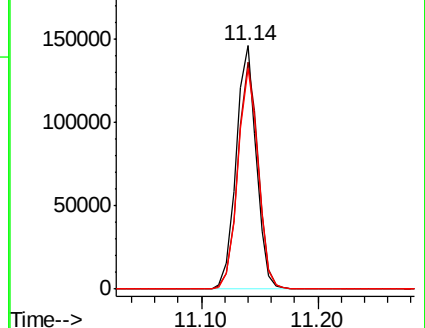
176 91.4 0.0 178.6

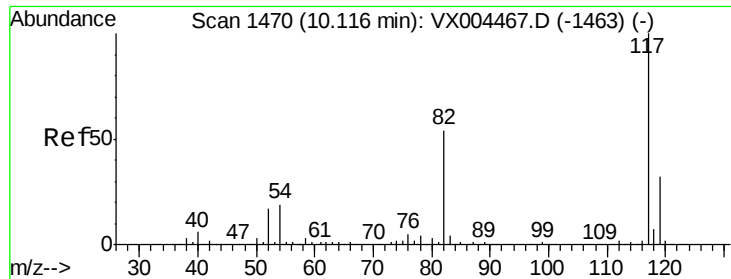


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

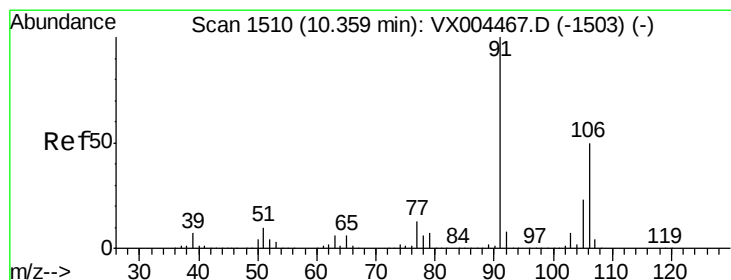
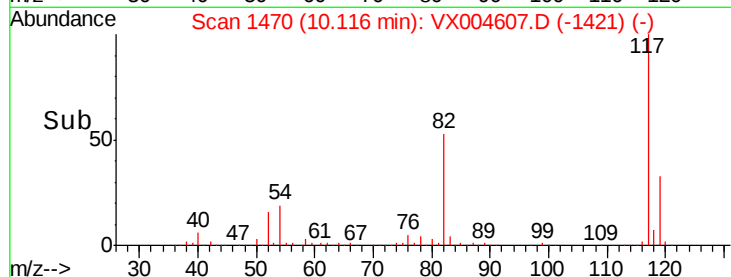
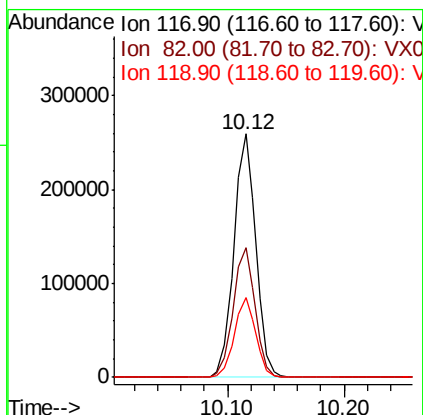
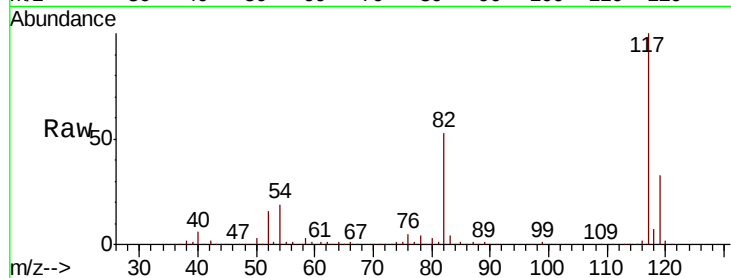




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

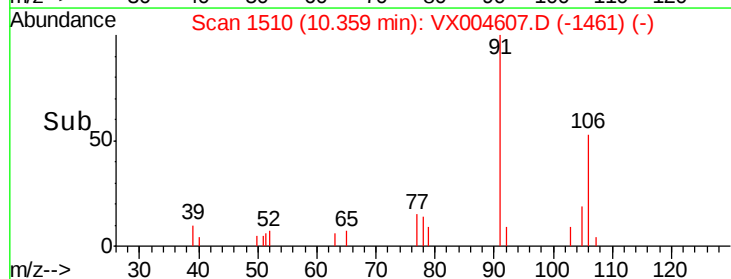
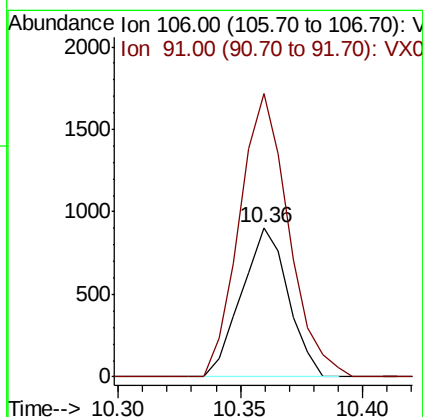
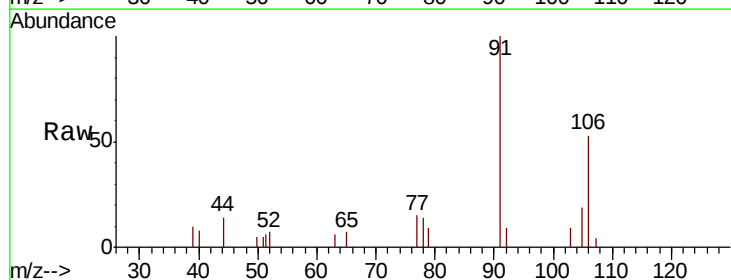
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-EB01-20180913

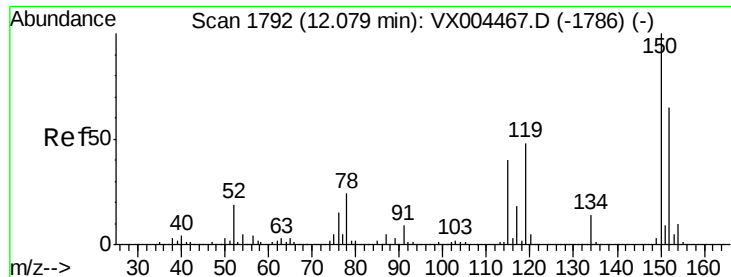
Tot Ion:117 Resp: 339381
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 32.7 29.3 43.9



#68
m/p-Xylenes
Concen: 0.23 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX004607.D
Acq: 16 Sep 2018 02:12

Tgt Ion:106 Resp: 1202
Ion Ratio Lower Upper
106 100
91 200.2 157.1 235.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-EB01-20180913

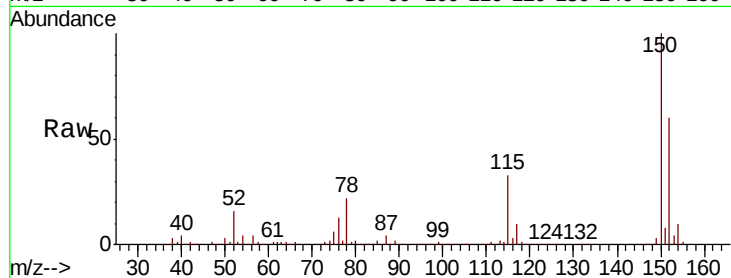
Tot Ion:152 Resp: 217211

Ion Ratio Lower Upper

152 100

115 53.2 39.0 117.0

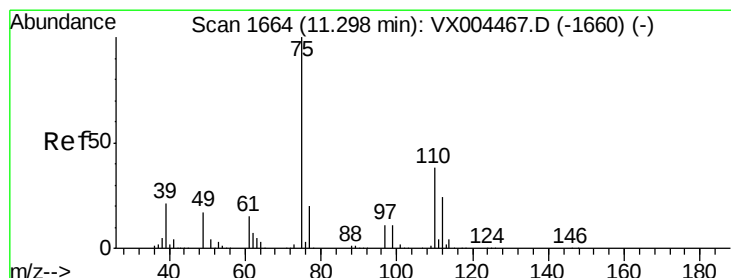
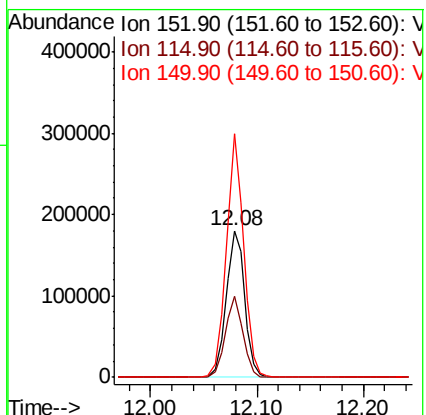
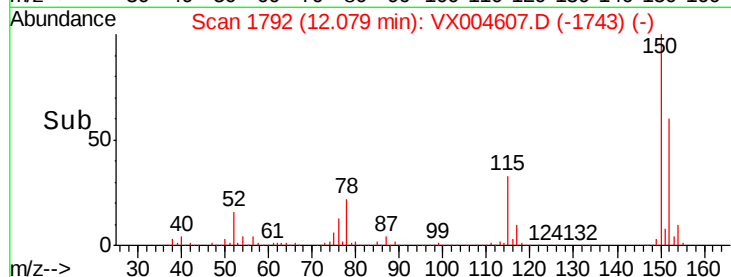
150 156.6 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 19.06 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004607.D

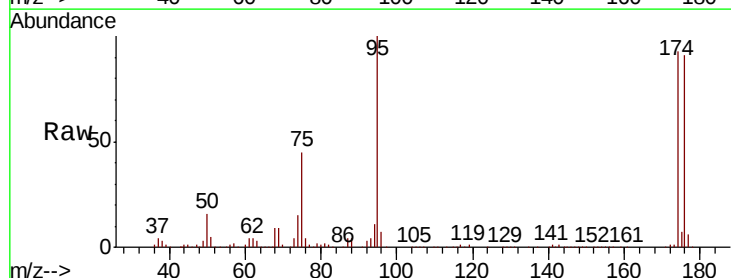
Acq: 16 Sep 2018 02:12

Tgt Ion: 75 Resp: 83304

Ion Ratio Lower Upper

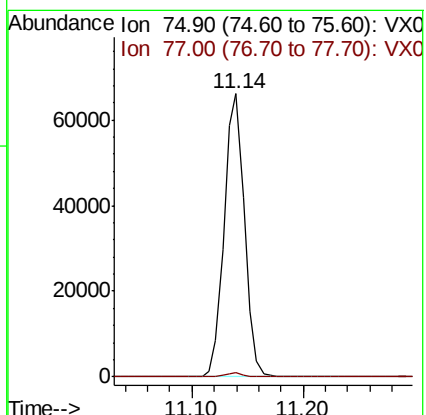
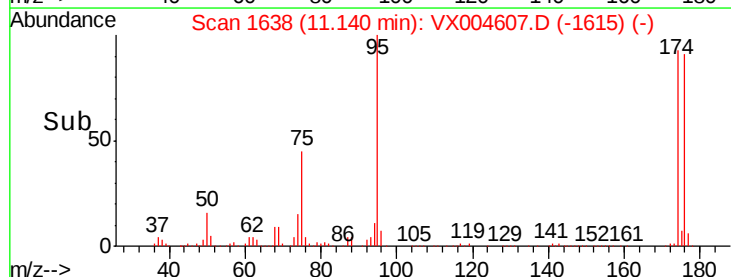
75 100

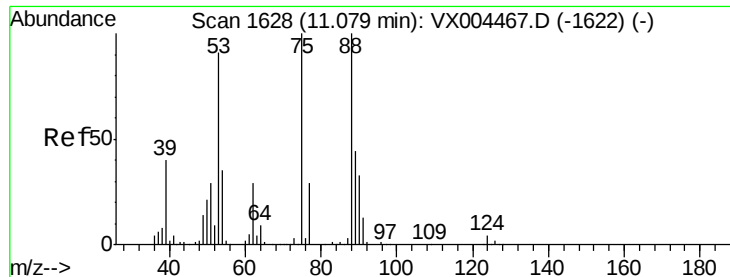
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.76 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-EB01-20180913

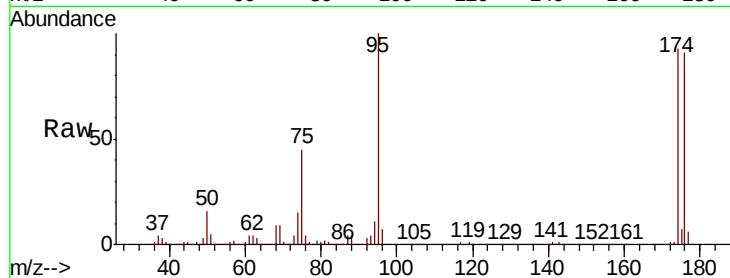
Tot Ion: 75 Resp: 83304

Ion Ratio Lower Upper

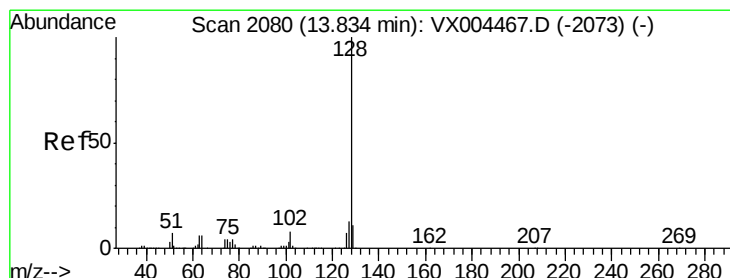
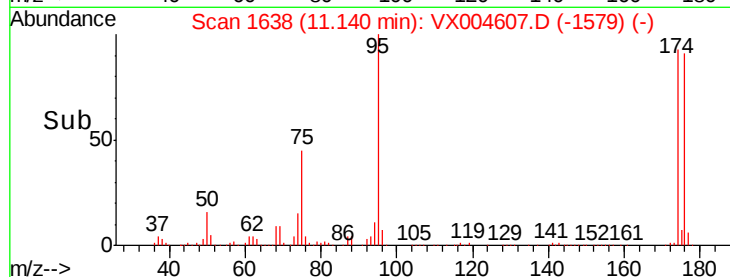
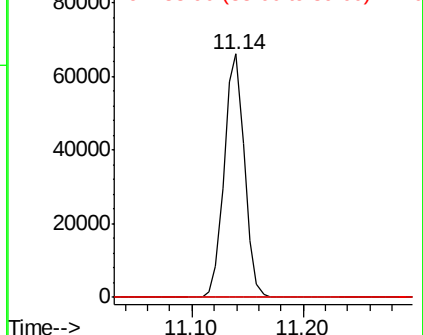
75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.26 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004607.D

Acq: 16 Sep 2018 02:12

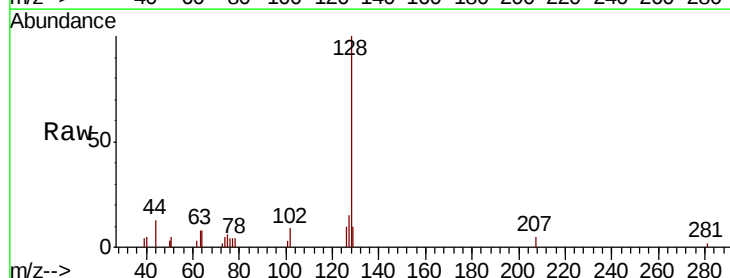
Tgt Ion:128 Resp: 3831

Ion Ratio Lower Upper

128 100

127 14.1 10.2 15.2

129 10.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

